

INTERNATIONAL SEARCH REPORT

International Application No. 30/522334
PCT/JP 03/08796

25 JAN 2004

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E04B1/74 E04B1/76 G10K11/168

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04B G10K B32B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 134 014 A (ZAIMA HAROLD H ET AL) 28 July 1992 (1992-07-28) column 2, line 66 -column 3, line 11 figures 1,5 ---	1,2,5,9, 11-14
A	EP 0 341 652 A (MANVILLE CORP) 15 November 1989 (1989-11-15) column 4, line 4-37 column 5, line 40-50 figures 1,2,4 ---	1-15
A	JP 11 161282 A (TOYOTA MOTOR CORP) 18 June 1999 (1999-06-18) cited in the application abstract figures 1,2,16-21 ---	1-15
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

10 October 2003

Date of mailing of the international search report

20/10/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 221 094 A (MURDOCK BRADLEY R) 9 September 1980 (1980-09-09) column 3, line 45 -column 4, line 32 figure 2 -----	1

Information on patent family members

International application No
PCT/JP 03/08796

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